



Motorized XY table with build in controllers and output for control of Z-stages from brands like Märzhäuser or Prior.

Features:

- Can be combined with most stereo microscopes and DeltaPix macro-systems.
- Easy to setup and use.
- Ideal for scanning, stitching and measurement.
- Repeatable autoscanning and timelaps
- Screw holes for attaching fixtures or other components
- Scanning can be combined with extended focus and extended exposure

Specification

Includes:

- Motorized XY-stage
- Build in three-output stepper motor controller
- DPXView Pro AZXY software for use with any DeltaPix camera
- Power supply
- All necessary cables

Repetitive precision:

<2 µm (temperature change ± 2.5 deg).

Resolution:

<math>< 0.15</math> µm (1/8 step)

Speed:

Up to 3.5 mm/s

Travel range

XY: 50x50mm

Macro/Microscope attachment:

Available for most stereo microscopes and macro stands.

Power supply:

100-240V AC /DC 12V 4A

Weight:

2.1 Kg. (without microscope or macrostand)

Minimum Computer Requirements

Pentium 4
1 GBytes of RAM
20 Gbyte free HD-space
2x USB 2.0 ports
Windows XP/Vista

A complete motorized solution for scanning of all kinds of objects with or without extended focus.

With this DeltaPix motorized XY table, it has now become easy and affordable to do scanning, timelaps recording in up to 100 different positions and easy automatic positioning for various measuring jobs.

Easy to install and control

After installation of the DeltaPix software, it's just a matter of connecting the USB- and power cable and the system is ready for use.

As an option complete systems incl. optical parts (microscopes or macrosystem) can be delivered calibrated, so the user immediately can start doing measurements and auto-stitching / scanning.

Autoscanning and stitching

Scanning of objects is done easily: With the software the position of the object can be moved to the upper left corner of the image. This position is saved and the position of the object is then moved to the lower right corner. Afterwards the software automatically calculates the number of images and positions needed to scan the object and starts the scanning.

When all the images are captured at each position, the images are combined to a new large image. As the software has complete control of the movement and position, the resulting image maintains the calibration and can be used for precise measurements.

Combine scanning with extended focus and extended exposure.

The functions "extended focus" and "extended exposure", included in the DPXView PRO AZXY software, enabling capture of images with full focus depth and displaying of shiny objects and dark areas at the same time, can be included in the object scanning.

By defining the Z-positions of the top and bottom of the object, and defining the longest and shortest exposure time needed to see both dark and shiny parts, the scanning sequence can include these techniques at each capture at each position, thereby forming a total image with full focus depth and perfect exposure of all parts.

Time laps in multiple positions.

The system easily performs timelaps or repeated still image capture in up to 100 different predefined positions. The capture in each position can be combined with extended focus and extended exposure.

Solid mechanical construction.

The XY table is build for use in industrial environments and can hold objects up to 3 kgs. The top plate holds a number of screw holes for 4mm screws to mount accessories and fixtures.